

PROCEEDINGS
OF THE
CALIFORNIA ACADEMY OF SCIENCES
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XVII

**REPORT OF THE PRESIDENT OF THE ACADEMY
FOR THE YEAR 1929**

BY
C. E. GRUNSKY
President of the Academy

In last year's annual report attention was called to the needs of the Academy for the proper functioning of the different departments. An appeal was made to public-spirited citizens in California to consider carefully and sympathetically the matter of helping the Academy in one or more of its activities. It is regretted that this appeal has not received the attention that it should. It is, therefore, necessary again to call attention to the opportunity which the Academy would afford any one who is able, to render financial assistance in a manner which would prove of lasting benefit to the community and the state. The opportunity for helping to advance popular education and science is one which should appeal strongly to many of our public-spirited citizens.

The membership of the Academy is made up of persons interested in science. It should have a membership of 5,000 to 10,000 instead of the 1,100 at which membership has stood for

some years. Dues are not onerous—only \$5.00 per annum, and no admission fee.

Special effort should be made during the ensuing year to increase the membership roll which has not changed materially during the year 1929. The membership is now made up of:

Patrons.....	17
Honorary Members.....	15
Life Members.....	85
Fellows.....	63
Members.....	911
Junior Members.....	5

1096

5 of the Life Members are also Fellows.....	5
2 of the Patrons are also Life Members.....	2
1 Fellow is also an Honorary Member.....	1
2 Fellows are also Patrons.....	2

Less..... 10

1086

On January 1, 1929, the number of members stood at.....	1096
New members added during the year.....	53
Members lost by death.....	23
Members resigned.....	27
Members dropped for non-payment of dues.....	13

63

Net loss during the year..... 10

Leaving the membership on January 1, 1930, at.....1086

The Academy carries on its list of benefactors the following names:

Deceased

Mr. James Lick

Mr. Ignatz Steinhart

The Academy carries on its list of patrons the following names:

Living

Mr. George C. Beckley	Mrs. Albert Koebele
Dr. Frank E. Blaisdell	Mr. A. Kingsley Macomber
Mr. William B. Bourn	Mr. John W. Mailliard
Hon. William H. Crocker	Mr. Joseph Mailliard
Mr. Peter F. Dunne	Mr. M. Hall McAllister
Dr. Barton Warren Evermann	Mr. William C. Van Antwerp
Mr. Herbert Fleishhacker	Mr. Edward P. Van Duzee
Hon. Joseph D. Grant	Dr. E. C. Van Dyke
Mr. Edward Hohfeld	

Deceased

Mr. William Alvord	Mrs. Charlotte Hosmer
Mr. Charles Crocker	Mr. Ogden Mills
Mr. W. M. Giffard	Mr. Alexander F. Morrison
Mr. John W. Hendrie	Mr. Amariah Pierce
Mr. William F. Herrin	Dr. John Van Denburgh
Mr. Henry M. Holbrook	

Academy members who were called by death in 1929 are as follows:

Mr. Harry Aldous.....	Member.....	March 15, 1929
Mr. R. Curtis Baird.....	Member.....	November 22, 1929
Mrs. Mary D. Barker.....	Member.....	January 20, 1929
Miss Katherine D. Burke....	Member.....	January 10, 1929
Mr. W. M. Fitzhugh.....	Life Member.....	May 18, 1929
Mr. Walter M. Giffard.....	Patron and Fellow.....	June 30, 1929
Mr. Harry D. Hawks.....	Member.....	July 15, 1929
Judge Frederick W. Henshaw.	Member.....	June 8, 1929
Mr. Edgar L. Hoage.....	Member.....	April 19, 1929
Mrs. William E. Keith.....	Life Member.....	April 28, 1929
Dr. John Sterling Kingsley...	Fellow.....	August 29, 1929
Mr. George R. Kleeberger...	Life Member.....	December 11, 1929
Dr. E. Ray Lankester.....	Honorary Member....	August 15, 1929
Mr. Frank A. Leach.....	Member.....	June 19, 1929
Dr. F. A. Lucas.....	Honorary Member..	February 10, 1929
Mr. Ogden Mills.....	Patron.....	January 29, 1929
Mrs. Louis F. Monteagle....	Member.....	June 26, 1929
Judge W. W. Morrow.....	Member.....	July 24, 1929
Mr. George A. Newhall.....	Life Member.....	December 22, 1929
Professor Robert Ridgway...	Honorary Member...	March 25, 1929
Mr. William T. Sesnon.....	Member.....	June 30, 1929
Mr. James A. White.....	Member.....	July 15, 1929
Mr. William K. Winterhalter.	Member.....	January 28, 1929

In the year 1929 eleven free lectures were delivered at the stated meetings of the Academy, as follows:

- JANUARY 2. "Reasons why an Elk Refuge should be established in the San Joaquin Valley." By Dr. Barton Warren Evermann, California Academy of Sciences, San Francisco.
- MARCH 6. "The Work of the Food, Drug, and Insecticide Administration." By Mr. Perry Bruce Clark, Assistant Chemist, United States Food, Drug and Insecticide Administration, San Francisco.
- APRIL 3. "The Story of the California State Geological Survey under Whitney and Brewer." By Mr. Francis P. Farquhar, San Francisco.
- MAY 1. "The Big Trees of the High Sierra." Illustrated. By Mr. Harold Stein, Field Executive, Boy Scouts of America, San Francisco.
- JUNE 5. "The California Valley Quail." Illustrated. By Mr. Donald D. McLean, Field Naturalist, California Fish and Game Commission, San Francisco.
- JULY 3. "Flora of the Apache Trail and adjacent country." By Miss Alice Eastwood, Curator, Department of Botany, California Academy of Sciences, San Francisco.
- AUGUST 7. "The Pistache Tree, its history, culture, and economic importance." Illustrated. By Mr. G. P. Rixford, Physiologist, Bureau of Plant Industry, United States Department of Agriculture, San Francisco.
- SEPTEMBER 4. "Reminiscences of old California." By Mr. Otto von Geldern, Second Vice-President, California Academy of Sciences, San Francisco.
- OCTOBER 2. "Some Peculiarities of the California Flora." By Miss Alice Eastwood, Curator of Botany, California Academy of Sciences, San Francisco.
- NOVEMBER 6. "In the By-paths of Chamisso in Alaska." By Dr. George Haley, Professor of Biology, St. Ignatius College, San Francisco.
- DECEMBER 4. "Experiences with Hawks in California." Illustrated. By Mr. Donald D. McLean, Field Naturalist, California Fish and Game Commission, San Francisco.

The Sunday lectures at the Museum of the Academy in Golden Gate Park retain their popularity, and the kindness and good-will of those who contribute of their knowledge and experience on these occasions is sincerely appreciated. The following 33 Sunday lectures were delivered at the Museum of the Academy in Golden Gate Park during the year 1929:

- JANUARY 6. "Western Reptiles and Amphibians." Illustrated. By Dr. C. L. Camp, University of California, Berkeley.
- JANUARY 13. "A Zoological Student in Germany." By Dr. J. S. Kingsley, Berkeley.
- JANUARY 20. "Fossil Hunting in New Mexico." Illustrated. By Dr. C. L. Camp, University of California, Berkeley.
- JANUARY 27. "Educating the Summer Vacationists." Illustrated. By Dr. Harold C. Bryant, State Fish and Game Commission.
- FEBRUARY 3. "The Stars." Illustrated. By Dr. J. H. Moore, Astronomer, Lick Observatory, Mount Hamilton, California.
- FEBRUARY 10. "The Nebulæ." Illustrated. By Dr. J. H. Moore, Astronomer, Lick Observatory, Mount Hamilton, California.
- FEBRUARY 17. "Systems of the Stars." Illustrated. By Dr. R. G. Aitken, Astronomer and Associate Director, Lick Observatory, Mount Hamilton, California.
- FEBRUARY 24. "Stars and Atoms." Illustrated. By Dr. S. F. Meyer, Professor of Astro-Physics, University of California, Berkeley, California.
- MARCH 3. "Minor Planets and Comets." Illustrated. By Dr. N. T. Bobrovnikoff, Martin Kellogg Fellow, Lick Observatory, Mount Hamilton, California.
- MARCH 10. "The Distance of the Sun." Illustrated. By Dr. R. H. Tucker, Palo Alto, California.
- MARCH 17. "Variable Stars." Illustrated. By Dr. S. D. Townley, Professor of Mathematics, Stanford University, California.
- MARCH 24. "Twins and Monsters, Their Etiology." Illustrated. By Dr. Charles E. von Geldern, Sacramento, California.
- MARCH 31. "The Deer Problem in California." Illustrated. By Mr. J. S. Dixon, Economic Mammalogist, University of California, Berkeley.

- APRIL 7. "The Elk Problem in California." Illustrated. By Mr. J. S. Dixon, Economic Mammalogist, University of California, Berkeley.
- APRIL 14. "Personal Observations on a Recent Trip in Europe." By Mr. C. B. Lastreto, San Francisco.
- APRIL 21. "Forestry in Switzerland, Sweden and California." Illustrated. By Prof. Walter Mulford, Professor of Forestry University of California, Berkeley.
- APRIL 28. "California's Fishery Resources." Illustrated. By Dr. H. C. Bryant, California Fish and Game Commission, San Francisco.
- MAY 5. "Literary Trails and Tracks." Illustrated. By Mr. Winfield Scott, Forest and Park Club of California, San Francisco.
- MAY 12. "Choosing a State Bird for California." Illustrated. By Mr. C. A. Harwell, Chairman for Northern California, State Bird Commission.
- MAY 19. "How the Yosemite Region was formed." Illustrated. By Mr. Harold Stein, Field Executive, Boy Scouts of America, San Francisco.
- MAY 26. "History of the Yosemite Region." Illustrated. By Mr. Harold Stein, Field Executive, Boy Scouts of America, San Francisco.
- JUNE 2. "Plant and Animal Life of the Yosemite." Illustrated. By Mr. Harold Stein, Field Executive, Boy Scouts of America, San Francisco.
- OCTOBER 6. "Forestry and Reforestation in California." Illustrated. By Mr. Winfield Scott, California Forest Protective Association, San Francisco.
- OCTOBER 13. "The Redwood in Sentiment, in Industry and in Reforestation." Illustrated. By Mr. Winfield Scott, California Forest Protective Association, San Francisco.
- OCTOBER 20. "Forestry and Reforestation in the Sierran Region." Illustrated. By Mr. Winfield Scott, California Forest Protective Association, San Francisco.
- OCTOBER 27. "As an Astronomer Sees the World." Illustrated. By Prof. Earle G. Linsley, Director, Chabot Observatory, Oakland, California, and Professor of Astronomy and Geology, Mills College, California.

- NOVEMBER 3. "Impressions of Java." Illustrated. By Prof. Earle G. Linsley, Director, Chabot Observatory, Oakland, California, and Professor of Astronomy and Geology, Mills College, California.
- NOVEMBER 10. "The Historical Development of Surgical Anæsthesia." Illustrated. By Dr. C. D. Leake, Professor of Pharmacology, University of California Medical School, San Francisco.
- NOVEMBER 17. "Food Poisoning." Illustrated. By Dr. J. C. Geiger, Associate Professor of Epidemiology, University of California, Berkeley.
- NOVEMBER 24. "The Quarantine Service and Control of the Mediterranean Fruit Fly." Illustrated. By Mr. C. A. Colmore, President, San Francisco High School Teachers' Association, San Francisco.
- DECEMBER 1. "The proposed new building of the California Academy of Sciences with particular reference to the Simson African Mammal Hall." Models of the habitat groups shown. By Dr. Barton Warren Evermann, Director, California Academy of Sciences and Mr. Frank Tose, Chief of Exhibits, California Academy of Sciences.
- DECEMBER 8. "Human History of the Lassen Region." Illustrated. By Mr. Harold Stein, Field Executive, Boy Scouts of America, San Francisco.
- DECEMBER 15. "Experiences on a Journey to Nias, an Island Southwest of Sumatra." Illustrated. By Prof. Olaf P. Jenkins, Chief Geologist, State Division of Mines.

LIST OF ACADEMY PUBLICATIONS IN 1929

That the Academy is actively prosecuting scientific research is evidenced by its publications. The following have been issued within the year:

PROCEEDINGS, FOURTH SERIES

- Vol. XVII, Nos. 11 and 12, pp. 297-360. No. 11—REPORT OF THE PRESIDENT OF THE ACADEMY FOR THE YEAR 1928, by C. E. Grunsky. No. 12—Report of the Director of the Museum for the year 1928, by Barton Warren Evermann. (Issued May 22, 1929.)
- Vol. XVIII, No. 1, pp. 1-27, plates 1-3—A NEW SPECIES OF CORAMBE FROM THE PACIFIC COAST OF NORTH AMERICA, by Frank M. MacFarland and Charles H. O'Donoghue. (Issued January 29, 1929.)

- Vol. XVIII, No. 2, pp. 29-43, 6 text figures—A NEW BIRD FAMILY (Geospizidæ) from the Galapagos Islands, by Harry S. Swarth. (Issued January 29, 1929.)
- Vol. XVIII, No. 3, pp. 45-71, plates 4-7—A CONTRIBUTION TO OUR KNOWLEDGE OF THE NESTING HABITS OF THE GOLDEN EAGLE, by Joseph R. Slevin. (Issued January 29, 1929.)
- Vol. XVIII, No. 4, pp. 73-213, plates 8-23—MARINE MIOCENE AND RELATED DEPOSITS OF NORTH COLOMBIA, by Frank M. Anderson. (Issued March 29, 1929.)
- Vol. XVIII, Nos. 5, 6, 7, 8, pp. 215-227, plate 24. No. 5, p. 215, plate 24, figs. 10-11—A NEW PECTEN FROM THE SAN DIEGO PLIOCENE, by Leo George Hertlein. No. 6, pp. 217-218, plate 24, figs. 7, 8, 9—A NEW SPECIES OF LAND SNAIL FROM KERN COUNTY, CALIFORNIA, by G. Dallas Hanna. No. 7, pp. 219-220, plate 24, figs. 5, 6—A NEW SPECIES OF LAND SNAIL FROM COAHUILA, MEXICO, by G. Dallas Hanna and Leo George Hertlein. No. 8, pp. 221-227, plate 24, figs. 1-4—SOME NOTES ON OREOHELIX, by Junius Henderson. (Issued April 5, 1929.)
- Vol. XVIII, No. 9, pp. 229-243, plates 25, 26—NOTES ON THE NORTHERN ELEPHANT SEAL, by M. E. McLellan Davidson. (Issued April 5, 1929.)
- Vol. XVIII, No. 10, pp. 245-260—ON A SMALL COLLECTION OF BIRDS FROM TORRES STRAIT ISLANDS, AND FROM GUADALCANAR ISLAND, SOLOMON GROUP, by M. E. McLellan Davidson. (Issued April 5, 1929.)
- Vol. XVIII, No. 11, pp. 261-265—THE GENERIC RELATIONSHIPS AND NOMENCLATURE OF THE CALIFORNIA SARDINE, by Carl L. Hubbs. (Issued April 5, 1929.)
- Vol. XVIII, No. 12, pp. 267-383, plates 27-32, 7 text figures—THE FAUNAL AREAS OF SOUTHERN ARIZONA: A STUDY IN ANIMAL DISTRIBUTION, by Harry S. Swarth. (Issued April 26, 1929.)
- Vol. XVIII, No. 13, pp. 385-391—THE ESCALLONIAS IN GOLDEN GATE PARK, SAN FRANCISCO, CALIFORNIA, WITH DESCRIPTIONS OF NEW SPECIES, by Alice Eastwood. (Issued September 6, 1929.)
- Vol. XVIII, No. 14, pp. 393-484, plates 33, 34—STUDIES IN THE FLORA OF LOWER CALIFORNIA AND ADJACENT ISLANDS, by Alice Eastwood. (Issued September 6, 1929.)
- Vol. XVIII, No. 15, pp. 485-496, plate 35—DREPANIA, A GENUS OF NUDI-BRANCHIATE MOLLUSKS NEW TO CALIFORNIA, by F. M. MacFarland. (Issued October 4, 1929.)
- Vol. XVIII, No. 16, pp. 497-530, plates 36-41—SOME UPPER CRETACEOUS FORAMINIFERA FROM NEAR COALINGA, CALIFORNIA, by J. A. Cushman and C. C. Church. (Issued October 4, 1929.)

ITEMS OF INTEREST

The Treasurer's report presents the facts relating to the Academy's financial standing. There has been, during the year, a further reduction of the Academy's indebtedness by \$10,000, leaving a balance of \$195,000 mortgage on the Commercial Building.

On December 7 a new mortgage was placed on the Commercial Building for \$450,000 at 5½ per cent. The new mortgage was placed with the Pacific Mutual Life Insurance Company of California. The placing of the new mortgage of \$450,000 was undertaken for the purpose of paying off the old mortgage of \$195,000 to the Hibernia Savings and Loan Society, which leaves a balance of \$255,000 for building purposes. The membership already is acquainted with the fact that the Academy is proposing to build an east wing to the present building, a portion of which will be "The Leslie Simson African Mammal Hall." This is being made possible by the generous offer of Mr. Leslie Simson which was explained in last year's report. The Architect is now working upon the plans for this new building.

The Academy possessed 319 shares of American Company stock. This was deposited with the American Trust Company for exchange for stock of the Goldman Sachs Trading Corporation August 7, 1929. In this transfer the Academy received 410 shares of stock of the Goldman Sachs Trading Corporation. October 1 a stock dividend of six shares was received, making a total of 416 shares, which were sold by Mr. William H. Crocker, acting for the California Academy of Sciences, October 11 at \$105 per share, the net proceeds being \$43,557.92. Had the stock been held a few weeks longer only about one-third as much could have been realized.

In June 1929 a reappraisal of the land on which the Commercial Building is located was made. In 1909, for the purposes of the lease, the land was valued at \$544,000. A reappraisal in 1919 placed its value at \$580,000. The reappraisal in 1924 advanced the value to \$820,000. In 1929 the land was valued at \$860,000.

In July an appraisal was made of the Commercial Building which resulted as follows:

New replacement value	\$666,504.33
Depreciated value	469,414.57
Insurable value	407,682.55

Under this appraisalment the total amount of insurance that the Academy can carry on the basis of 80 per cent is \$325,000. Formerly the Academy carried \$525,000, but the Trustees voted to reduce the insurance to \$325,000, the legal maximum.

It is with sorrow that I report the death of one of our Trustees, Mr. William M. Fitzhugh, who died May 18, 1929. The Academy has also lost by death three Honorary members, viz: Dr. F. A. Lucas of New York, who died February 10; Prof. Robert Ridgway of Olney, Illinois, who died March 25; and Dr. E. Ray Lankester of London, England, who died August 15. The Academy has suffered another great loss in the tragic death in an automobile accident, June 26, of Mrs. Louis F. Monteagle, wife of Mr. Louis F. Monteagle, a member of the Board of Trustees.

At a meeting of the Trustees August 26 Mr. Norman B. Livermore was unanimously elected a Trustee to serve for the remainder of the term caused by the death of Mr. William M. Fitzhugh which expires in February 1931. The Academy is very fortunate in securing Mr. Livermore as a member of the Board of Trustees.

Certain amendments to the Constitution were adopted May 25, 1929, which changed the manner relating to the method of electing members. Under these amendments members are now elected by the Council. Three new classes of members were established, viz: Benefactors, Sustaining and Junior Members.

In September the Director, Dr. Evermann, accompanied by the Assistant Curator of Fishes, Mr. H. Walton Clark, left for Indiana to superintend the packing and shipping to the Museum of the Jordan-Eigenmann Indiana University Collection of Fishes which had been purchased by the Academy. They were joined at Bloomington by the Superintendent of the Aquarium, Mr. Seale, who assisted them. The collection came through to San Francisco in perfect condition and is now temporarily stored in the basement of the Aquarium.

In December, Mr. M. Hall McAllister, our Treasurer, and also Chairman of the Committee on the Conservation of Wild Animal Life, donated \$100 to that fund. Mr. McAllister has been very efficient in looking after this committee.

Mr. Edward Hohfeld of the law firm of Morrison, Hohfeld, Foerster, Shuman and Clark has continued to look after the legal affairs of the Academy and I feel sure that I voice a unanimous sentiment when I take this opportunity to express our appreciation of his deep interest in the Academy.